5300 Beethoven Street, Los Angeles, CA 90066
TEL: (310)306-5556 • FAX: (310)821-7413
WEB: www.ophirrf.com • E-MAIL: sales@ophirrf.com

MODEL 5275

0.7 - 3.0 GHz
250 WATTS
LINEAR POWER RF AMPLIFIER

Solid State Broadband High Power RF Amplifier

The 5275 is a 250 Watt broadband amplifier that covers the 700 – 3000 MHz frequency range. This amplifier utilizes Class A linear power devices that provide an excellent 3rd order intercept point, high gain, and a wide dynamic range.

Due to robust engineering and employment of the most advanced devices and components, this amplifier achieves high efficiency operation with proven reliability, Like all OPHIR$_{RF}$ amplifiers, the 5275 comes with an extended multiyear warranty backed by Ophir RF's commitment to total customer satisfaction.

	Parameter	Specification @ 25° C
Electrical		
1	Frequency Range	0.7 – 3.0 GHz
2	Saturated Output Power	250 Watts typical
3	Power out at 1dB compression	150 Watts nominal
4	Small Signal Gain	+54 dB min
5	Power Flatness	+/- 2.5 dB max
6	IP_3	+60 dBm typical
7	Input VSWR	2:1 max
8	Harmonics	-20 dBc typical @ linear power
9	Spurious Signals	< -60 dBc typical @ linear power
10	Input/Output Impedance	50 Ohms nominal
11	AC Input Power	2,500 Watts max
12	AC Input	110 – 264 VAC, single phase
13	RF Input	+10 dBm max
14	RF Input Signal Format	CW/AM/FM/PM/Pulse
15	Class of Operation	A
Mechanical		
15	Dimensions	19" x 8.75" x 26"
16	Weight	80 lbs.
17	Connectors	Type-N (RF Input/Output)
18	Grounding	Chassis
19	Cooling	Internal Forced Air
Environmental		
20	Operating Temperature	0º C to +50º C
21	Operating Humidity	95% Non-condensing
22	Operating Altitude	Up to 10,000' Above Sea Level
23	Shock and Vibration	Normal Truck Transport

Specifications subject to change without notice

FE MODEL SHOWN

ORDERING MODELS

- ◊ RE – Rear RF Connector model with Front Panel Controller Ethernet, IEEE-488 and RS232
- ◊ FE – Front RF Connector model with Front Panel Controller Ethernet, IEEE-488 and RS232
- ◊ R – Rear RF Connector model
- ◊ F – Front RF Connector model

06/15 Approved by: _____ Date: _____

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FRONT PANEL CONTROLLER FEATURES

◊ Forward Power Monitoring (dBm or Watts)
◊ Reflected Power Monitoring (dBm or Watts)
◊ Gain Control (20 dB dynamic range)
◊ Fault Status
◊ Full Protection Of any VSWR Condition, Open or Short, into any Phase angle
◊ Remote Control Access via the Ethernet, RS-232, or IEEE-488 Communications ports
◊ Integrated Automatic Leveling Control to allow end-user to maintain a steady output level with variances in temperature, or input RF level
◊ Standby/Enable Control
◊ Front Panel Display for easy viewing of System Status Locally
◊ Keypad buttons for full local control

CIRCUIT CONTROL *(WITH FRONT PANEL CONTROLLER)*

◊ Standby (amplifier disable)
◊ Gain/power setting with 20dB range
◊ VSWR protection Reset
◊ ALC On/ Off

CIRCUIT INDICATIONS *(WITH FRONT PANEL CONTROLLER)*

◊ Forward Power
◊ Reflected power
◊ VSWR Fault
◊ Temp Fault
◊ Gain Setting (VVA) percentage

CIRCUIT PROTECTIONS

◊ Thermal Overload
◊ Over Current
◊ Over Voltage
◊ Open or Short VSWR Conditions *(With Front Panel Controller)*

RFPA SYSTEM OPTIONS

◊ Switched Filter Bank
◊ Input Power Requirements
◊ Ruggedized Version
◊ Cabinet Requirements
◊ Outdoor Version
◊ Sample Ports
◊ Racking Options
◊ Many More!
◊ ***Consult Factory with Specific Requirements***

Certified to ISO 9001:2008

Made in the U.S.A.

 Approved By: _____ Date: _____